

L 19347-63 EWT(m)/BDS AFFTC/ASD

ACCESSION NR: AR3005190 S/0272/63/000/007/0164/0164/

SOURCE: RZh. Metrologiya i izmer. tekhnika. Otd. vy\*p., Abs. 7.32.1110

6

AUTHOR: Furman, A. O.

TITLE: Setup for measuring low-activity preparations according to hard betaradiation, halogen counter, STS-5

CITED SOURCE: Izv. Timiryazevsk. s.-kh. sksd., no. 5, 1962, 195-202

TOPIC TAGS: low-activity radiation measurement, hard beta-ray emission, radiation measurement

TRANSLATION: A setup is described for the measurement of radioactive preparations with weak emission according to the hard \$\beta\$-radiation. The radiation detector is an \$\frac{\text{STS-50halogen}}{\text{counter0}}\$ (length of plateau 200 volts, slope -- 2.1% per 100 volts). The counters (working counter and 18 protective counters) are enclosed in a horizontal lead housing of the MIZAtype with a wall thickness of up to 50 cm. The setup uses an anticoincidence circuit with three 6NIP tubes enclosed in the BGS block and powered from a stabilized source mounted in the Cord 1/2

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L 19347-63

ACCESSION NR: AR3005190

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PS-64 block of the B-type apparatus. The circuit is easily adjustable and reliable in operation. A table is included which compares the minimum activity levels with the B-type setup with and without the anticoincidence circuit. The setup makes it possible to measure  $Sr^{90} + Y^{90}$  preparations with an activity of  $\Lambda = 1 \cdot 10^{-12}$  curie with an accuracy of S = 40% over a time t = 2 hours.

DATE ACQ: 24Ju163

SUB CODE: GE, NS

ENCL: 00

Card 2/2

GARNETSKIY, V.A., aspirant; KOBAZEV, Ye.I., starshiy laborant; RACHINSKIY, V.V., doktor khimicheskikh nauk, prof.; FURMAN, A.O., starshiy prepodavatel'

Variant of the automatic apparatus for recording the elution and column curves of the distribution of tagged elements in chromatographic analysis. Izv. TSKHA no.4:224-229 '63.

(MIRA 17:1)

FURMAN, A. S.

FURMAN, A. S. AND SHRAYBER, L. B. "Materials for the clinical treatment of acute hepatitis", Trudy Kishinevsk. gos. med. in-ta, Vol. 1, 1949, p. 322. 30.

SO: U3261 , 10 April 53 (Letopis - Zhurnal 'nykh Statey No. 11, 1949).

#### FURMAN A. S.

O pokasanita h i protivopokasaniiakh k napravieniiu tuberkuleznykh bol'nykh na iushnyi bereg Kryma. Zindications and contra-indications for directing tuberculous patients to southern Crimes? Sovet. mad. No. 6 June 51 p. 16-7.

1. Professor, Head of the Department of Tuberculosis of the Central Institute for the Advanced Training of Tuberculosis Physicians at Yalta (Director-V. P. Lebedova) attached to the Institute of Climatotherapy (Director-V. F. Chernyshev). CLML Vol. 20, No. 10 Oct 1951

#### FURMAN, A.S.

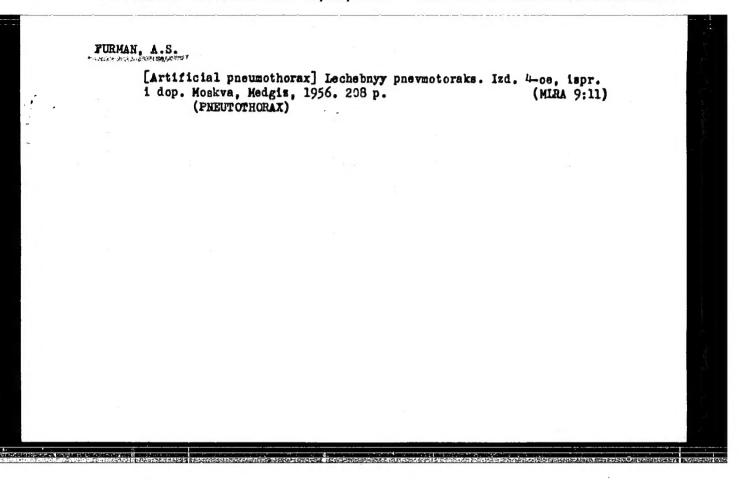
Classification of pulmonary tuberculosis. Probl. tuberk., Moskva no. 1: 35-38 Jan-Feb 52. (CIML 21:5)

1. Professor. 2. Head of the Department of Tuberculosis at Yalta of the Central Institute for the Advanced Training of Physicians (Director V.P. Lebedeva).

#### FURNAN, A.S.

Ingrapeutic indications in pulmenary tubercules is in sanateria on the Southern shores of Crimea. Probl. tuberk., Noskva No.5:61-67 Mept-Oct. 1953. (CIML 25:5)

1. Professor. Head of the Tuberculosis Department of the Central Institute for the Advanced Training of Physicians (Director --- V.P. Lebedeva) located at the Institute of Tuberculosis Climatotherapy (Director --- Ye. D. Petrov) at Yalta.



FURMAN, A.S., doktor med.nauk., prof.

Review of A.S.Frank's monograph "Syndrome of coronary insufficiency in different pathological states" by A.S.Furman. Zdravookhranenie (MIRA 16:7)

(CORONARY VESSELS—DISEASES)

(BIBLIOGRAPHY—ARTERIES—DISEASES)

(FRANK, A.S.)

FURMAN, Aleksandr Samuilovich; BARENBOYN, A.M., red.; CHUCHUPAK, V.D., tekhn. red.

[Pulmonary tuberculosis] Legochnyi tuberkulez. Kiev, Gosmedizdat USSR, 1963. 253 p. (MIRA 17:3)

IVANOV, V.V.; FURMAN, A.V.

Temperature field of an infinite anisotropic prism with internal heat generation. Inzh.-fiz. zhur. 8 no.3:358-360 Mr '65.

(MIRA 18:5)

1. Politekhnicheskiy institut, Tomsk.

L 8988-66 EWT(d)/EWT(1)/EPF(n)-2/EWA(1) LIP(c) WW	
ACC NR. AP5027572 UR/0170/65/009/005/0594/0596 0/	
AUTHOR: Ivanov, V.V.; Furman, A.V.	
ORG: Electrotechnical Institute, Novosibirsk (Elektrotekhnicheskiy institut)	
TITLE: An approximate solution of the problem of nonlinear heat conductivity	A.
SOURCE: Inzhenerno-fizicheskiy zhurnal, v.9, no.5, 1965, 594-596	
TOPIC TAGS: heat conductivity, heat transfer, heat capacity, non-	
ABSTRACT: The article considers unsteady state heat transfer in solid bodies when the thermophysical properties are functions of the temperature. The problem reduces to the solution of the nonlinear differential equation of heat conductivity	
$\rho(T) C(T) \frac{\partial T}{\partial \tau} = \operatorname{div} [\lambda(T) \operatorname{grad} T] $ (1)	
with appropriate initial and boundary conditions. For most materials the density is a constant, but the relationships between the coefficients of heat conductivity and heat capacity and the temperature are	
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nonlinear functions:

$$\lambda(T) = \lambda_0 + nT, \tag{2}$$

$$C(T) = C_0 + mT. (3)$$

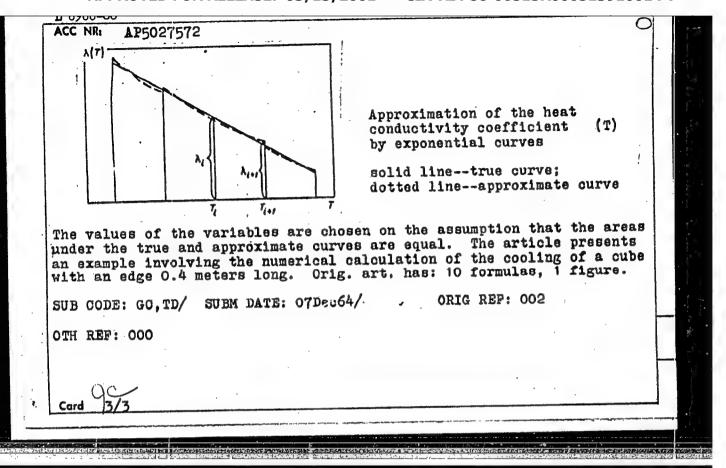
In a given interval or, if this interval is sufficiently large, in sections of it, relationships (2) and (3) can be replaced by exponential functions:

$$\lambda(T) = \lambda_0 + nT = \lambda_t \exp\left(\frac{T - T_t}{T_{t+1} - T_t} \ln \frac{\lambda_{t+1}}{\lambda_t}\right), \tag{4}$$

$$C(T) = C_0 + mT = C_t \exp\left(\frac{T - T_t}{T_{t+1} - T_t} \ln \frac{C_{t+1}}{C_t}\right). \tag{5}$$

$$C(T) = C_0 + mT = C_t \exp\left(\frac{T - T_t}{T_{t+1} - T_t} \ln \frac{C_{t+1}}{C_t}\right).$$
 (5)

Here  $\lambda_1$ ,  $\lambda_{1+1}$  and  $0_1$ ,  $0_{1+1}$  are the approximate values of the heat conductivity and heat capacity coefficients at the limits of a chosen temperature interval  $\Delta$  T =  $T_{1+1}$ - $T_1$  (See Figure).



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L 05899-67 EWT(d)/EWT(1) IJP(c) MW ACC NR: AP6008134 SOURCE CODE: UR/0281/66/000/001/0131/0134

AUTHOR: Ivanov, V. V. (Novosibirsk); Furman, A. V. (Tomsk)

ORG: None

TITLE: Investigation of heating of solids by convective and radiant fluxes

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 1, 1966, 131-134

TOPIC TAGS: dimension analysis, radiative heat transfer, convective heat transfer, heat theory

ABSTRACT: A simple approximate method is proposed for calculating the temperature field in bodies heated by simultaneous convection and radiation where the physical properties of the body (thermal conductivity and specific heat) vary together with temperature. A partial differential equation is given in dimensionless form for specific heat as a function of temperature in terms of the temperature dependence of thermal conductivity and the boundary conditions for this problem are formulated. A procedure for simplification and approximate solution of this system of equations is given. Numerical calculations assuming constant thermophysical parameters showed that when the Stark number  $Sk = \frac{\sigma_a T_c^a}{\lambda_a} R$  is small and the dimensionless temperature  $\theta_0$  is high, it

may be assumed that  $\frac{n}{N}p = 4\left(\frac{\theta_0 + 1}{2}\right)^3 + \frac{B}{C}$ 

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where  $Bi = aR/\lambda_0$  is the Biot number and p is a positive real number. For low  $\theta_0$  and large Sk, the region for the variation in  $\theta$  should be divided into k intervals:  $\theta_0 - \theta_1$ , ...,  $\theta_{k-1} - \theta_k$ ; ...,  $\theta_{k-1} - \theta_k$ ; and p should be chosen for each interval from the relationships

$$\frac{n}{N}p_{k} = 40k^{3} + \frac{Bi}{Sk}, \frac{n}{N}p_{k} = 4\left(\frac{0_{k-1}+1}{2}\right)^{3} + \frac{Bi}{Sk}.$$

The error in calculation of the temperature field for all generalized dimensionless coordinates X=x/R is less than 5% with proper selection of the parameter p. A table is given comparing temperatures in an infinite plate calculated by various methods. Orig. art. has: 1 table, 19 formulas.

SUB CODE: 20/ SUBM DATE: 03Jun65/ ORIG REF: 004

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Card 2/2

FURMAN, Aleksey Yevgeniyevich; DOBROKHVALOV, V.P., kandidat biologichesikh nauk, redaktor; KNYAZEVA, L., redaktor; TROYAHOVSKAYA, H., tékhnicheskiy redaktor.

[Michrin's theories on the natural development of the organic world] Michurinskoe uchemie o sakonomernostiakh rasvitiia organicheskogo mira. Moskva, Gos.isd-vo polit.lit-ry, 1957. 225 p.
(MLRA 10:6)

(Biology)

FURMAN G. Ye.

USSR / General Division, General Questions, Philosophy, A-1
Methodology

Abs Jour: Ref Zhur-Biologiia, No 5, 1958, 18806

Author : Furman A. E

Inst : -

Title : The Philosophical Seminars in the Soil-Biology Faculty

of the Moscow State University

Orig Pub: Vopr. filosofii, 1957, No 3, 215-216

Abstract: In 1949 philosophical seminars of the professors

and teachers of the Soil-Biology Faculty of the Moscow State University began to work. Actual philosophical questions of biology were discussed at them: species and species formation; on the laws of development of the organic world, the problem of the complete-

ness of an organism, and others.

Card 1/1

APPROVED FOR RELEASE OS/13/2009. G.CIA-RDP88-00513R000513910014-7

[Philosophical problems in natural history] Filosofskie voprosy estestvoznaniia. [Moskva] Izd-vo Mosk. univ. Vol.1. [Philosophical and theoretical problems in Michurin's theories] Filosofsko-teoreticheskie voprosy michurinskogo ucheniia. 1958. 421 p.

(Michurin, Ivan Vladimirovich, 1855-1935) (MIRA 11:10)

(Biology--Philosophy)

KAGANOV, V.M.; MURMAN, A.Ye.; IGNATOV, A.I.; PLYUSHCH, L.N.; SHOROKHOVA, Ye.V.; YUROVAYA, I.L.; PLATOHOV, G.V., red.; SUKHOV, A.D., red.izd-ve; RYLINA, Yu.V., tekhn.red.; LAUT, V.G., tekhn.red.

[The problem of causality in modern biology] Problems prichinnosti v sovremennoi biologii. Moskva, 1961. 191 p. (MIRA 14:2)

1. Akademiya nauk SSSR. Institut filosofii. (CAUSATION) (BIOLOGY J-PHILOSOPHY)

FURMAN, Aleksey Yevgen'yevich; FETGINSON, N.I., otv. red.; POMALEN'KAYA, O.T., red.; YERMAKOV, M.S., tekhm. red.

[Origin and formation of the dialectic conception of development in biology] Vozniknovenie i formirovanie dialekticheskoi kontseptsii razvitiia v biologii. Moskva, Izd-vo Mosk. univ., 1961. 282 p.
(MIRA 14:8)

(Biology-Philosophy)

OPARIN, A.I., akademik; STUDITSKIY, A.N., prof.; NAUMOV, N.P., prof.; KOVAL'SKIY, V.V.; YUHOVA, I.L., dots.; PLATOHOV, G.V., prof.; KAGANOV, V.M.; FURMAN, A.Ye., dots.; MEDVEDEV, N.V., prof.; YAKIMOV, V.P., kand. biol. nauk; ZHUKOV-VEREZHNIKOV, N.N.; BONDARENKO, P.P., prof.; MAYSKIY, I.N., prof.; TRIBULEV, G.P., dots.; TSAREGORODTSEV, G.I., dots.; DOHROKHVALOV, V.P., kand. biol. nauk; YAZDOVSKIY, V.I., prof.; VIKTOROVA, V., red.; CHEREMNYKH, I., mlad. red.; ULANOVA, L., tekhn.red.

[Studies on the dialectic of living nature] Ocherk dialektiki zhivoi prirody. Moskva, Sotsekgiz, 1963. 527 p. (MIRA 16:12)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni V.I.Lenina (for Koval'skiy). 2. Deystvitel'nyy chlen AMN SSSR (for Zhukov-Verezhnikov). (Biology-Philosophy)

FURMAN, ALEKSEY YEVGEN YEVICH

Vozniknoveniye i formirovaniye dialekticheskoy ontseptsii razitiya v Biologii. Moskva, Izd-vo Moskovskogo Universiteta, 1961.

282 p.

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Increase the recording density and readout quality of a magnetic tape in program controlled machine tools. Avtom.
i prib. no.1:30-32 Ja-Mr 165. (MIRA 18:8)

FURMAN, Coloman

How we Rumanians are carrying out our duties in the field of labor safety. Munca sindic 7 no.10:46-49 0 263.

1. Membru al comitetului sindicatului, responsabilul comisiei de protectie a muncii si legislatie, uzinele "Victoria", Calan.

Economical methods of installation welding. Stroitel' no.3:12
Ag '57.

(Electric welding) (Reinforced concrete)

FURMAN, David Borisovich; PROKOPOVICH, A.Ye., red.; ALEKSEYEVA, T.V.,

[Modernization of metal-cutting machine tools] Modernizatsiia metallorezhushchikh stankov. Moskva, TSentr. biuro tekh. informatsii, 1958, 45 p. (Modernizatsiia metallorezhushchikh stankov. no.3).

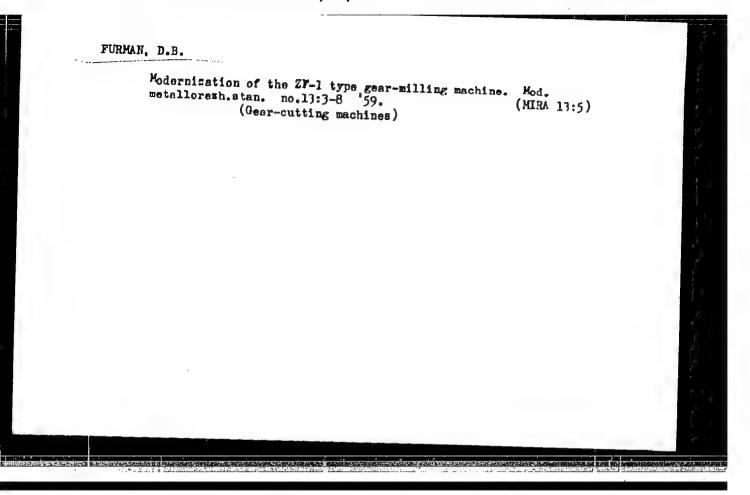
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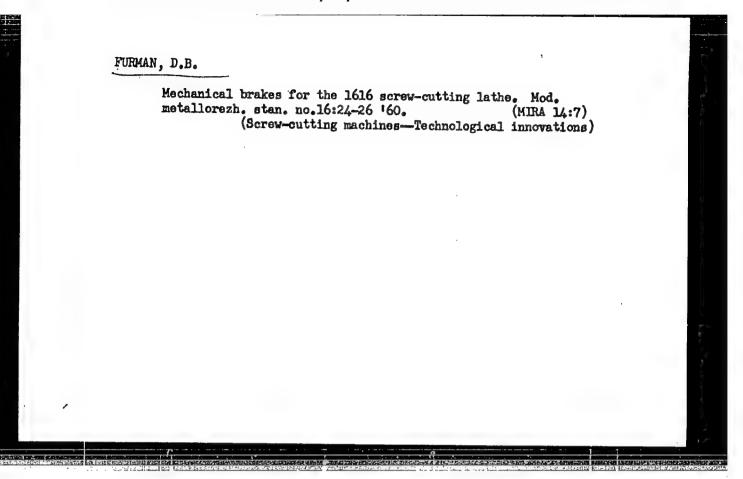
(Machine tools)

FURMAN, D.B.

Modernization of the ALA type horizontal drilling machine made by the Beringer Company. Mod.metallorezh.stan. no.8:3-12 '59. (MIRA 13:5) (Drilling and boring machinery--Technological innovations)

odernization of planing machines made by the Waldrich Com od.metallorezh.stan. no.12:3-16 '59. (MIRA (Planing machinesTechnological innovations)	ompany. UA 13:5)





AYZENSHTADT, L.A.; PEN'KOV, P.M.; GLADKOV, B.A.; LIKHT, L.O.;

KRIMMER, T.Ye.; KASHEPAV, M.Ya., kand. tekhn. nauk;

MERPERT, M.P., kand. tekhn. nauk; KOPERBAKH, B.L.;

CHERNIKOV, S.S., kand. tekhn.nauk; BELOV, V.S.; ZHURIN,

B.F.; MONAKHOV, G.A., kand.tekhn.nauk; MOROZOV, I.I.;

MUSHTAYEV, A.F.; OGNEV, N.N.; PALEY, M.B., kand. tekhn.

nauk; FURNAN, D.B.; LIVSHITS, A.L., kand.tekhn.nauk; MECHETNER,

B.Kh.; SOSENKO, A.B; AVDULOV, A.N.; LEVIN, A.A., kard.tekhn.

nauk; YAKOBSON, M.O., doktor tekhn.nauk; MAYOROVA, E.A.,

kand.tekhn.nauk; MOROZOVA, Ye.M.; ZUSMAN, V.G., kand.tekhn.

nauk; NAYDIS, V.A., kand.tekhn.nauk; VIADZIYEVSKIY, A.P., prof.,

doktor tekhn. nauk, red.; BELOGUR-YASNOVSKAYA, R.I., red.;

CHIGAREVA, E.I., red.; ASVAL'DOV, M.Ya., red.; KOGAN, F.L.,

tekhn. red.

[Machine-tool industry in capitalist countries] Stankostroenie v kapitalisticheskikh stranakh. Pod red. i s predisl. A.P.Vladzievskogo. Moskva, 1962. 822 p. (MERA 15:7)

1. Moscow. TSentral'nyy institut nauchno-tekhnicheskoy informatsii mashinostroyeniya. 2. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov (for Vladziyevskiy, Belogur-Yasnovskaya, Chigareva, Asval'dov, Kogan).

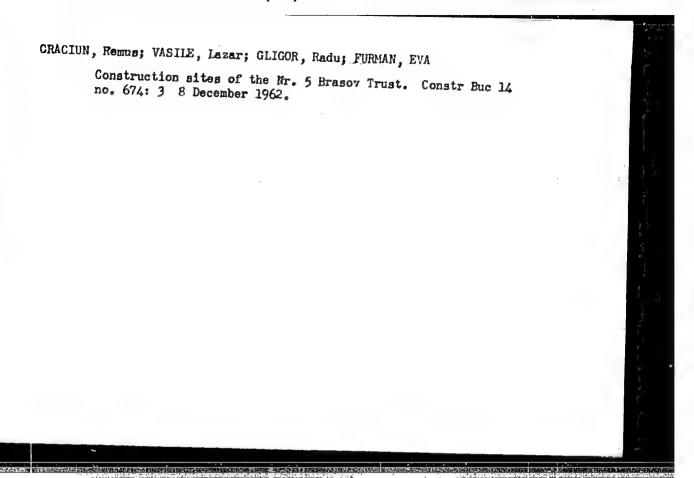
(Machine-tool industry)

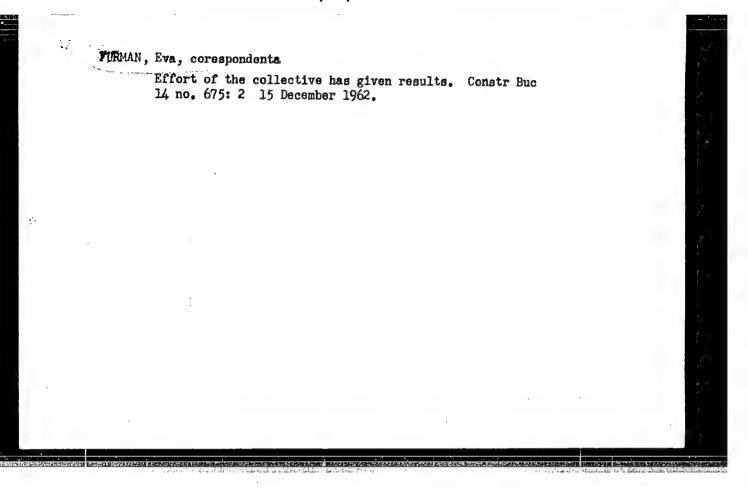
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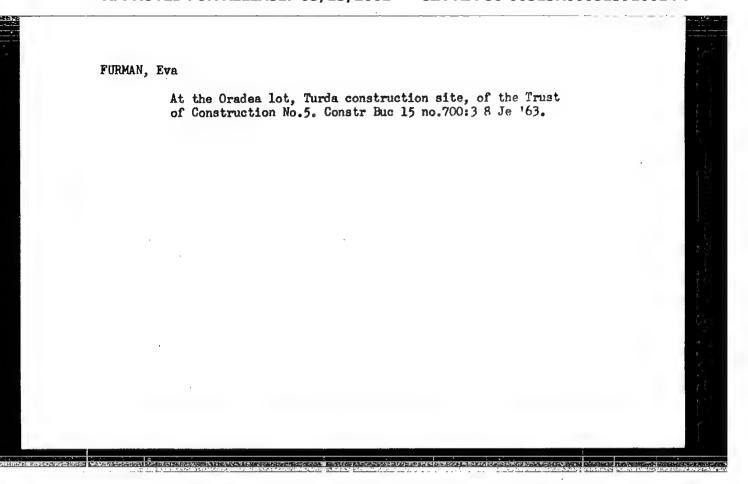
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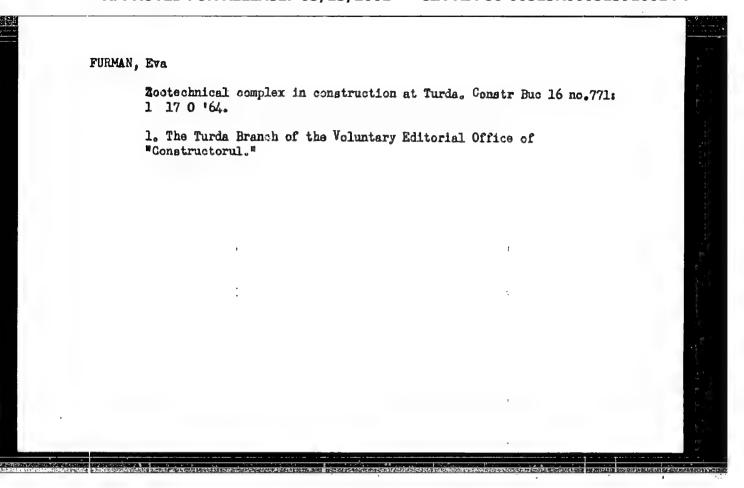
(MIRA 15:4)

1. Ukrainskiy institut metallov (for Furman, Konoplya). 2. Kamyshburunskiy kombinat (for Kotov).
(Sintering) (Kerch Peninsula--Iron ores)









RODIONOV, V.P.; FURMAN, E.A., inzh., retsenzent; SHISHLYKOV, Ye.S., inzh., red.; VASIL'YEVA, N.N., tekhn. red.

[Check rooms for hand baggage] Kamory khraneniia ruchnoi kladi. Moskva, Transzheldorizdat, 1963. 65 p.

(MIRA 16:10)

(Railroads—Baggage)

ACC NR. AP6034621

SOURCE CODE: UR/0380/66/000/006/0066/0072

AUTHOR: Gel'man, A. S. (Moscow); Prokof'yev, V. N. (Moscow); Furman, F. A. (Moscow)

ORG: none

TITLE: Wave processes in hydraulic couplings of hydraulic transmissions

SOURCE: Mashinovedeniye, no. 6, 1966, 66-72

TOPIC TAGS: vibration propagation, sound propagation, vibration transmission, fluid flow, flow analysis, HYDRAULIC, ENGINEERING

ABSTRACT: The propagation of a sound wave in a hydraulic pressure line consisting of a system of two pipes and two vessels filled with an elastic fluid is investigated, and the influence of the vessels on the propagation mechanism of the sound wave is determined. From a fluid's differential equations of motion and continuity, considering its initial and sectional boundary conditions, and applying Fourier and graphic computation methods, an equation is derived which permits the pressure and the flow velocity at any point in the system to be determined. As demonstrated by a numerical example, a sudden inflow-pressure change effects in the next vessel a harmonic pressure change of an amplitude equal to the pressure jump and of a lag equal to the pressure wave's propagation time to the vessel. The pressure fluctuation frequency is influenced by the presence of the second vessel, and the natural fluctua-

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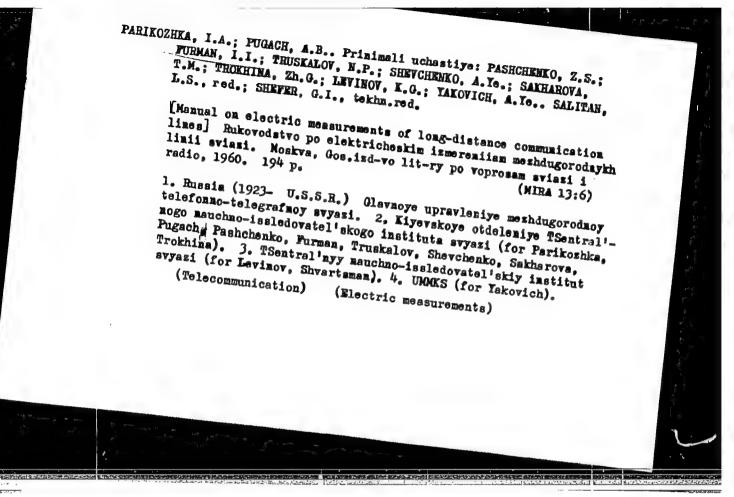
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Medicine - Education, Medical

"New Statute for Schools for Extern Dental Technicians," I. I. Furman, 2 pp

"Stomatologiya" No 5

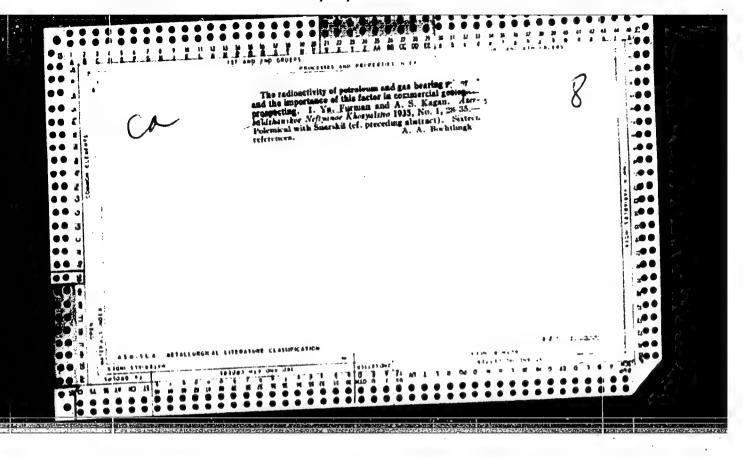
On 1 Jan 47 there were 3,780 dental technicians in the USER, 70% of whom had been through the dental technical school. Describes training, and explains new regulations concerning externs.

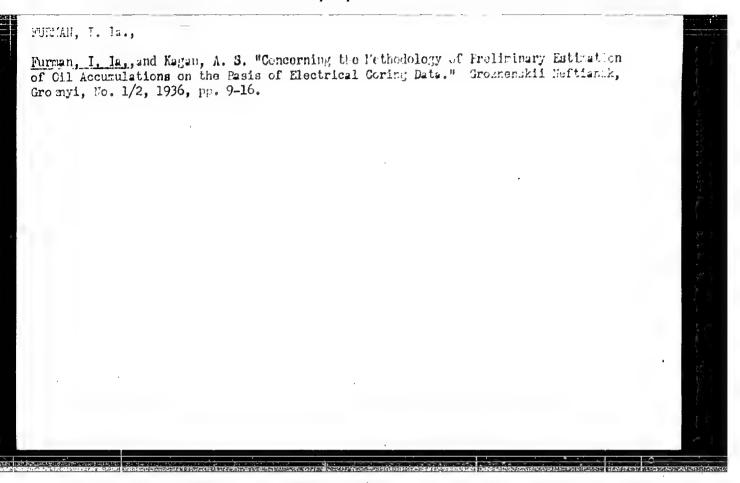


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FURMAN, I. Va., dotsent (Voronezh); TUMEL', V.S., inzh. (Voronezh); FURMAN, A.M., inzh. (Voronezh)

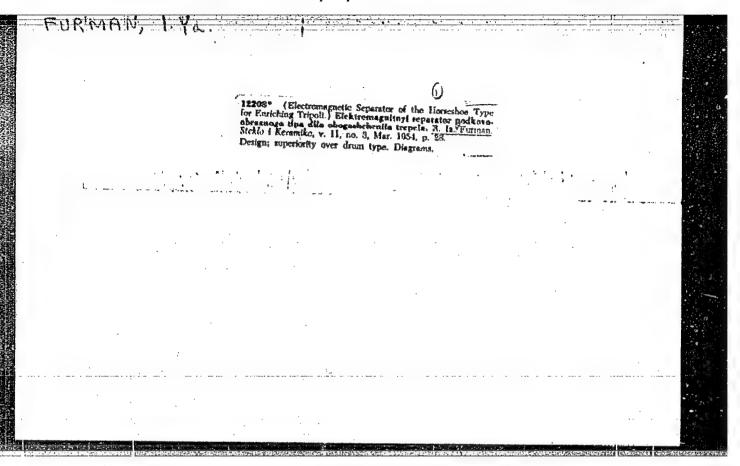
Increasing the yield of water wells by torpedoing. Gidr. i mel. 16 no.1: 53-56 Ja '64. (MIRA 17:2)

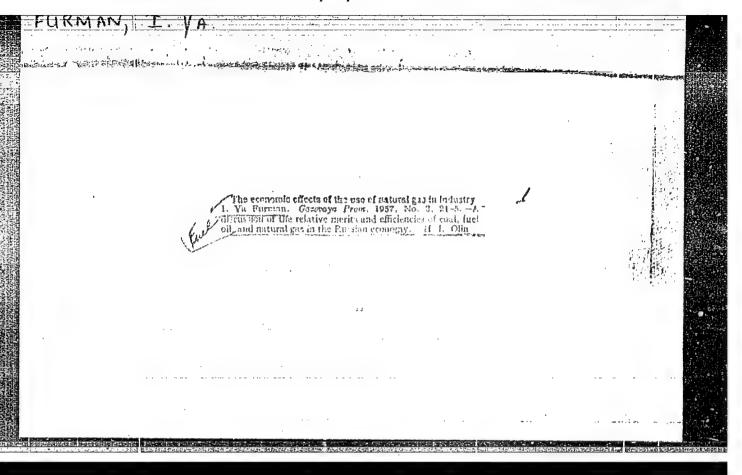


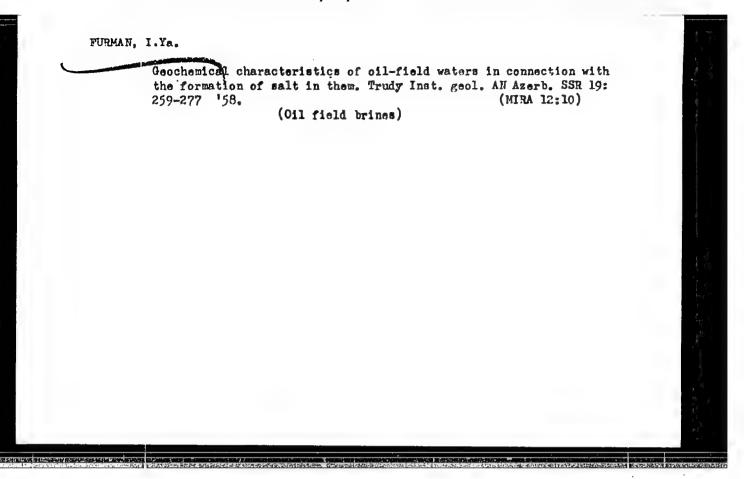


FURMAN, I. Ya.

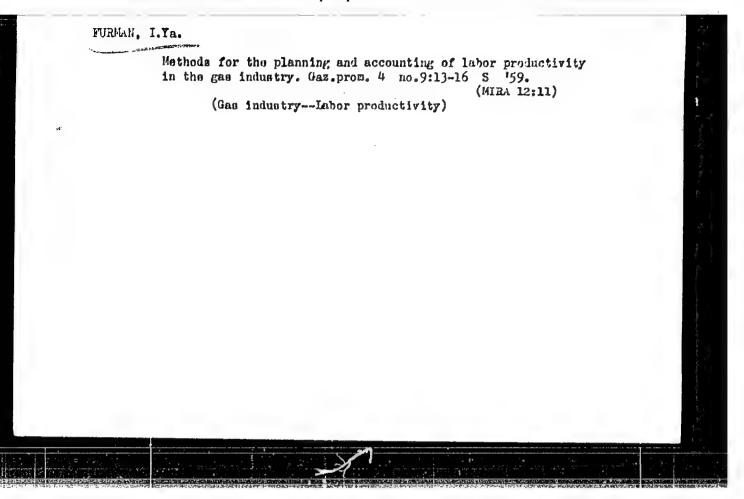
"Geological Models from Drilling Materials," Gostoptekhizdat, Azerbaydzhan Division, 198 pages, 1948

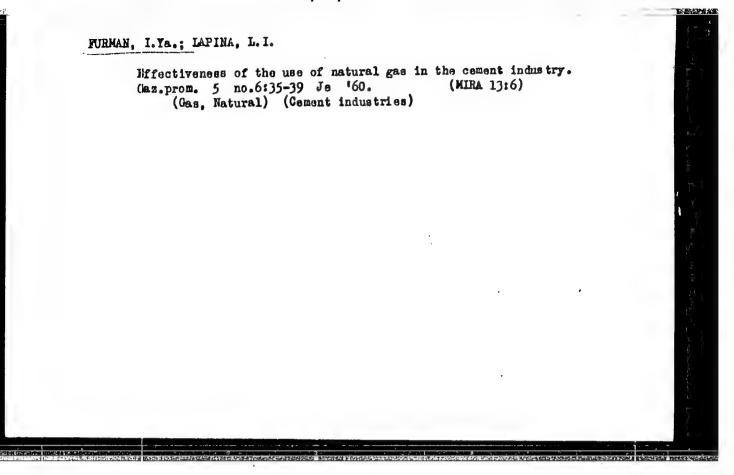






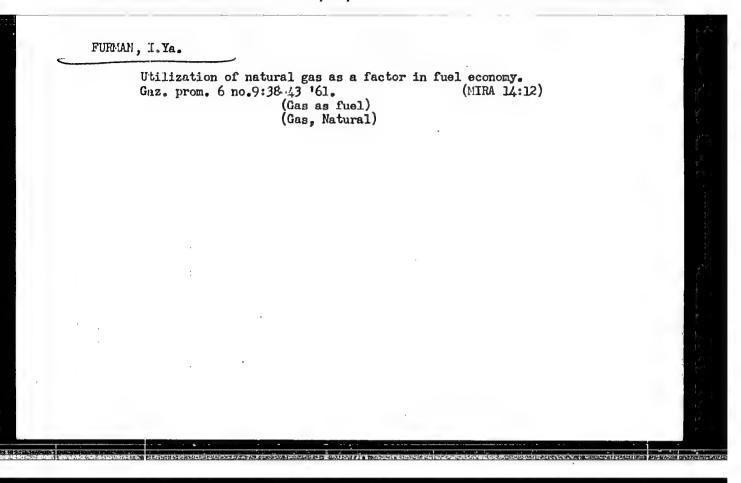
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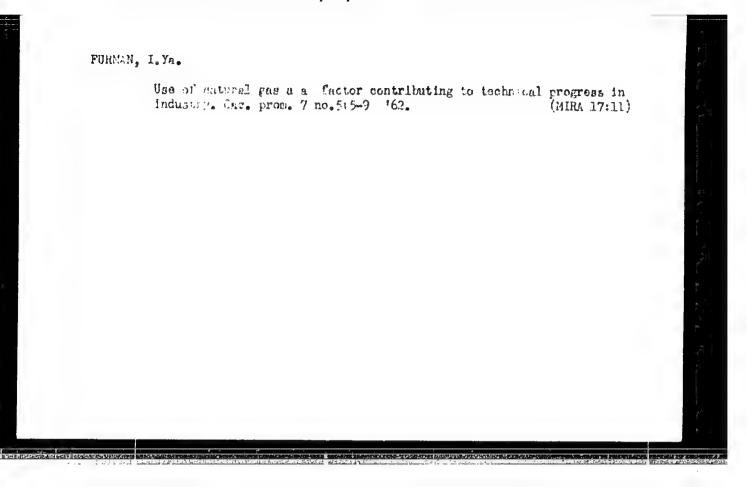




FURMAN, Isaak Yakovlevich; SOLGANIK, G.Ya., vedushchiy red.; TROFIMOV, A.V., tokhn. red.

[Economic effectiveness of the use of natural gas as industrial fuel] Ekonomicheskaia effektivnost' ispol'zovaniia prirodnogo gaza kak promyshlennogo topliva. Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1961. 33 p. (MIRA 14:7) (Gas, Natural)



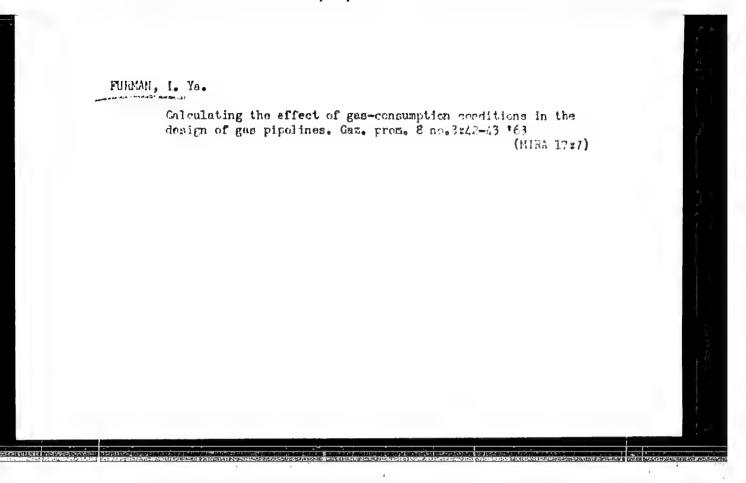


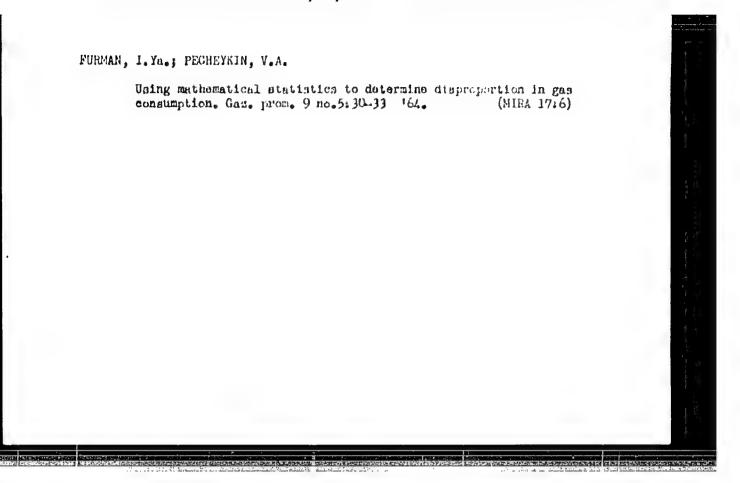
YEROFEMEV, N.S.; FURMAN, I. Ya.

Economic indices in the underground storage of gas in waveverbearing reservoirs. Oas. pros. 7 no.12: 38-13 \*62 (MIRA 17:7)

FURMAN, Isaak Yakovlevich; RASTOVA, G.V., ved. red.; STAROSTINA, L.D., tekhn. red.

[Economic effectiveness of the use of natural gas in industry] Ekonomicheskaia effektivnost' ispol'zovaniia prirodnogo gaza v promyshlennomicheskaia. Moskva, Gostoptekhizdat,
1963. 163 p. (MIRA 16:7)
(Gas, Natural) (Gas as fuel)





Gas industry in the Soviet Union from 1959 to 1963. Gas. prom. 9 no.7:1-4 '64. (MIRA 17:8)

KHOZHAINOV, N.P., dotsent; TOCHILIN, M.S., prof.; DMITRIYEVSKIY, V.S., dotsent; CHERNYSHOV, N.I., dotsent; PETRINA, Z.D., predpodavatel\*; LAVKENOVA, T.V., assistent; RASKATOV, G.I., dotsent; PREOBRAZHENSKAYA, V.N., dotsent; SHRAMKOVA, G.V., prepodavatel\*; TAXSTATO, S.i., dotsent; FURMAN, Q.I. N., dotsent

Savva Gavrilovich Vishniakov, 1 97-1964; obituary. Lit. i pol. iskop. no.6:179-180 N-D 164.

(MIRA 18:3)

CZYZ, Jerzy, arch; FURMAN, Jan, arch.; JOZEFOWICZ, Jerzy, arch.; SKOPINSKI, Andrzej, arch.; PANORSKI, Wlodsimiers, constr.; SZIMCZYK, Jan, constr.; BIENIEWSKI, Marek, modelist

Contest for a shopping center. Architektura Pol no.10:379-383 61.

#### POLAND

FURNAN, Krystyna, Second Clinic of Internal Diseases (II Klinika Chorob Newmetrznych), AN (Akudenia Medyozna, Medical Academy) im, J. Marchlewskiego in Elalystok (Lirector: Prof. Dr. J. CHLEHOWSKI)

"Treatment with Radioiodine of a Case of Thyroid Crisis and Diabetic Coma."

Warsaw-Krakow, Pracelled Lakaroki, Vol 19, Ser II, No 1, 63, pp 12-14

Abstract: [Author's English summary] The author reports a case of thyroidal orisis and diabetic come in a 56 year old woman, Combined treatment with insulin, cortisone, and radiotechns permitted to overdown these couplinations. The patient is now well, Of the 14 references, five (5) are Western and nine (9) are Polish.

1/1

FURMAN, Krystyna

APPROVED; FOR IREASE 1 03/13/12001ts et GIAnRDP86-00513R000513910014-7 Pol. tyg. lek. 20 no.27:996-999 5 J1 165.

1. Z II Kliniki Chorob Wewnetrznych AM w Bialymstoku (Kierownik: prof. dr. Jakub Chlebowski).

LAZARENKO, Yevgeniy Konstantinovich [Lasarenko, IE.K.], prof.;

SLIVKO, M.M., dotsent, otv.red.; FURMAN, K.P., red.;

MALYAVKO, A.V., tekhred.

[Course on mineralogy] Kurs mineralogii. L'viv, Vyd-vo
L'vivs'koho univ. Pt.2. [Description of minerals] Opys
mineraliv. 1959. 654 p. (MIRA 13:9)

1. L'vovskiy gosudarstvennyy universitet im. Ivana Franko
(for Lazarenko).

(Minerals--Classification)

MEL'NIK, Yuriy Mikhaylovich [Mel'nyk, Yu.M.]; GABINET, M.P. [Habinet, M.P.], kend. geol.-mineralog. nauk, otv. red.; FURMAN, K.P., red.; KALYAVKO, A.V., tekhn. red.

[Mineralogy of the weathered surface in Western Volhynia]
Do mineralogii kory vyvitriuvannia Zakhidnoi Volyni. L'viv.
Vyd-vo L'viva'koho univ., 1960. 79 p. (MIRA 14:5)

(Yolhynia--Weathering)

SHAFRANOVSKIY, I.I., prof. Prinimeli uchestiye: MCKIYKYSKIY, V.A.; STULOV, N.N.; GKNDKLEV, S.Sh.; PIS'MENNYY, V.A.; HALASHOVA, M.N.; MIKHEYEVA, I.V.; SAL'DAU, R.P.; KALININ, A.I.; DOLIVO-DOHROVCE'SKAYA, G.K., PIOTROVSKIY, G.L., dotsent, otv.red.; FURMAN, K.P., red.; MALYAVKO, A.V., tekhred.

[Lectures on the morphology of mineral crystals] Lektsii po kristsllomorfologii mineralov. L'vov, Izd-vo L'vovskogo univ., 1960. 161 p. (MIRA 14:1)

1. Kafedra kristallografii Leningradskogo gornogo instituta (for Mokiyevakiy, Stulov, Gendelev, Pis'mennyy, Balashova, Mikheyeva, Sal'dau, Kalinin, Dolivo-Dobrovol'skaya). (Minerals) (Crystals)

GRIGOR'YEV, D.P., prof.; LAZARENKO, Ye.K., prof., otv. red.;
FURMAN, K.P., red.; SARANYUK, T.V., tekhn. red.

[Ontogeny of minerals] Ontogeniia mineralov. L'vov, Izd-vo
L'vovakogo univ., 1961. 283 p. (MIRA 15:3)

1. Leningradskiy gornyy institut, Kafedra mineralogii (for
Grigor'yev). 2. Chlen-korrespondent Akademii nauk USSR (for
Lazarenko). (Minerals)

LAZARENKO, E.K. [Lazarenko, IE.K.], prof.; SLIVKO, M.M., dots., otv. red.; FURMAN, K.P., red.; MALYAVKO, A.V., tekhn. red.

[Course on mineralogy] Kurs mineralogii. L'viv, Vyd-vo L'vivs'koho univ. Pt.3. [Mineralogy of rocks and mineral deposits] Mineralogiia hirskykh proid i mineral'nykh rodovysheh. 1961. 306 p.

(MIRA 14:11)

1. L'vovskiy gosudarstvennyy universitet im. Ivana Franka (for Lazarenko).

(Mineralogy)

LAZARENKO, Yevgeniy Konstantinovich, prof.; GABINET, Mikhail Petrovich [Habinet, M.P.]; SLIVKO, Yelena Petrovna [Slyvko, O.P.]; FURMAN, K.P., red.; MALYAVKC, A.V., tekhn. red.

> [Mineralogy of sedimentary formations of the cis-Carpathian region]Mineralogiia osadochnykh utvoren' Prykarpattia. L'viv, Vyd-vo L'vivs'koho univ., 1962. 481 p. (MIRA 15:10) (Carpathian Montain region—Mineralogy)

CIA-RDP86-00513R000513910014-7" APPROVED FOR RELEASE: 03/13/2001

LAZARENKO, Ye.L., prof.; LAZARENKO, E.A.; RARYSINIKOV, E.K.;
MALYGINA, O.A.; FURMAN, K.P., red.; SARANYUK, T.V.,
tekhn. red.

[Mineralogy of Transcarpathia] Mineralogiia Zakarpat'ia.
[By] E.K.Lazarenko i dr. L'vov, Izd-vo L'vovskogo univ.,
1963. 614 p. (MIRA 17:3)

LESNYAK, V.F.; KALYUZHNYY, V.A., kand. geol.-miner. nauk, otv. red.; FURMAN, K.P., red.

[Fundamentals of the analysis of the physicochemical properties of mineral-forming solutions according to inclusions in minerals] Osnovy analiza fizilo-khimicheskikh svoistv mineraloobrazulushchikh rastvorov po vkliucheniiam v mineralakh. L'vov, Izd-vo L'vovskogo univ., 1964. 218 p. (MIRA 18:5)

#### "APPROVED FOR RELEASE: 03/13/2001

#### CIA-RDP86-00513R000513910014-7

USSR/Processes and Equipment for Chemical Industries -

Control and Measuring Devices. Automatic Regulation.

Abs Jour

: Ref Zhur - Khimiya, No 2, 1957, 6984

Author

Furman, K.S.

Inst

: Scientific Research Institute of Thermal Instruments.

Title

: Universal Radioactive Density Meter for Liquids

Orig Pub

: Priborostroyeniye, 1956, No 7, 25-27

Abstract

The universal radioactive density meter for liquids (PZkR) which was developed by NIITeplopribor, is based on the phenomenon of absorption of a direct beam of gamma radiation on passage by the latter through a layer of liquid, and is a general purpose, industrial, noncontact instrument for remote control, continuous, determination, recording and regulation of density of any liquid. Instrumental error, for any measurement range, does not exceed ± 0.01 g/cm3. The instrument embodies a compensa-

Card 1/3

#### APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513910014-

USSR/Processes and Equipment for Chemical Industries -Control and Measuring Devices. Automatic Regulation.

Abs Jour : Ref Zhur - Khimiya, No 2, 1957, 6983

> system. The comparison channel has its own radioactive source, metal compensation wedge, radiation receiver and a separate forming unit. Difference signal of the 3 measurement channels is transmitted to a servomotor which moves the compensation wedge. Since the intensity of gamma radiation, that has passed through matter, is proportional to density of matter, displacement of the wedge constitute the measure of change in density of the liquid. The wedge is connected to the pointer of the indicator instrument. When the servomotor moves the wedge it also moves the core of the induction coil which is the reference input element of the telemetering system of the secondary instrument. The electronic unit designed as an indicator panel instrument can be located up to 200 m from the radioactive data unit. The secondary instrument can be situated at a distance of 1 km and more from the data unit.

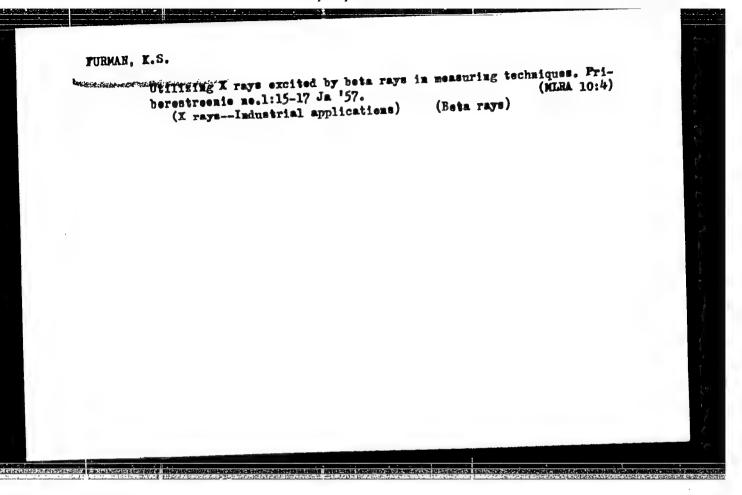
USSR/Processes and Equipment for Chemical Industries. K-2 Control and Measuring Devices. Automatic Regulation.

Abs Jour : Ref Zhur - Khimiya, No 2, 1957, 6984

A hookup diagram of PZhR instrument is shown and formulas are given for determining the activity of the cobalt source depending on the required measurement range.

Card 3/3

CHARLES MICHAEL AND HER MINERS



ECROL'KOV, V.I., inshener: FURMAN, X.S., inzhener.

Conference on the use of radioisotopes. Priborostroenie no.7:31-32
(MIRA 10:9)

(Moscow--Radioisotopes--Industrial application)

### "APPROVED FOR RELEASE: 03/13/2001

# CIA-RDP86-00513R000513910014-7

FURMAN, K.S.

AUTHOR:

Furman, K.S.

119-6-14/16

TITLE:

Scientific-Technical Conference on Methods of Radioactive Control and Regulation of Manufacturing Processes (Nauchno-tekhnicheskaya konferentsiya po radioaktivnym metodam kontrolya i regulirovaniya proizvodstvennykh protsessov)

PERIODICAL:

Priborostroyeniye, 1957, Nr 12, pp. 29-29 (USSR)

ABSTRACT:

This conference took place from September 4, to September 7, 1957 at Riga. It was arranged by the central administration for the use of atomic energy attached to the Council of Ministers of the USSR in collaboration with the AN and the council of political economy of the Latvian SSR, as well as the central administration of the scientific technological society for radio engineering and electric communications imeni Popov. The participants were scientists and technical engineers from Moscow, Riga, Kiyev, Tallin, Gor'kiy and other cities. More than 70 reports and papers were read and discussed. They dealt with theoretical works (papers) in the field of calculation and construction of apparatus, based upon the use of radioactive isotopes, and with the adaption of these apparatus in the different branches of the political economy. The first report was written by Professor N.N.Shumilovskiy,

Carl 1/3

Scientific-Technical Conference on Methods of Radioactive Control and Regulation of Manufacturing Processes 119-6-14/16

doctor of technical sciences and L.V.Mel'ttser, candidate of technical sciences (institute for automation and telemechanics AN USSR); it dealt with the basic trends and tendences in the development of the automation production control by means of nuclear radiation. Great attention was paid to the reports of the Scientific Research Institute for the Construction of Heat-Energetic Apparatus (NiITeplopribor), which dealt with the theoretical principles in the design of radioactive apparatus for the measuring of the level and density of liquids. B.I. Verkhovskiy (Physical Institute AN USSR imeni Lebedev) described a method on the increase of exactness in the measuring of the intensity of radioactive radiation. I.M. Taksar and V.A. Yanushkovskiy (Institute for Physics AN Latvian SSR) reported on the consideration which should be given to the statistic of the control signal at the registration of radiation by means of a radioactive relay. The report of V.K.Latyshev, Yu.S.Pliskin, L.K.Tatochenko and A.K. Felinger (Central Scientific Research Institute for Iron-Mining) dealt with the characterization of the principle of the establishment of a quick-working radioactive ammeter. Other interesting reports were submitted: by the Central Scientific Research Institute for Iron Mining, by the Central

Card 2/3

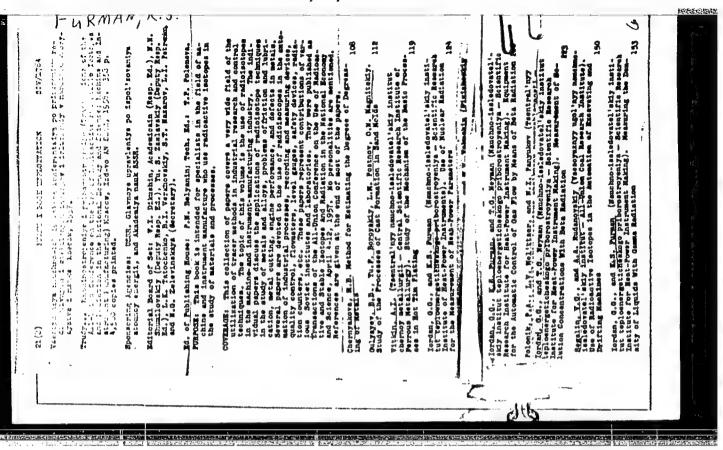
Scientific-Technical Conference on Methods of Radioactive Control and Regulation of Manufacturing Processes

119-6-14/16

Laboratory of Automation, by the ALLunion Scientific Research Institute for the Oil Industry and other organizations. The report of the central administration for the use of atomic energy attached to the Council of Ministers of the USSR dealt with the organization of laboratories which are occupied with the use of radiation resources. In a resolution of the conference it was pointed out among other items that the development of the theoretical test work should be considered important, as it makes possible the solution of technical problems in the design of conorete apparatus. The use of typical electron blocks is recommended in the construction of apparatus and the increase of production of new blooks is encouraged. Furthermore, the resolution of the conference proposes to unify and typify the existing apparatus and those in project, above all the apparatus for the measuring of the thickness of sheets, as well as the levels of different milieus. Finally, the wish was expressed to create a special institute for the use of isotopes. These problems should be investigated by the central administration for the use of atomic energy and the AN USSR.

AVAILABLE: Card 3/3

Library of Congress



AUTHOR:

Furman, K.S.

119-58-5-7/11

TITLE:

The Main Problems of Designing Self-Compensating Radioactive Densimeters for Liquids (Osnovnyye voprosy proyektirovaniya avtokompensatsionnykh radioaktivnykh plotnomerov zhidkosti)

PERIODICAL:

Priborostroyeniye, 1958, Nr 5, pp. 22-24 (USSR)

ABSTRACT:

Measuring of density can be carried out in two different ways:
a) The decrease of the intensity of a j-source which has fully irradiated the liquid, is measured and from this the density is computed.

b) The decrease of intensity of a proray scattered on the liquid to be measured, is measured. The decrease shows the degree of

density.

The first method is dealt with in detail theoretically and two Soviet devices PZhR-3,PZhR-2 are described which work according to this principle. The principle of self-compensation consists in the fact that two bundles of rays pass simultaneously through the liquid and the compensation element. They are divided by two measuring devices connected in difference switching. The

Card 1/2

The Main Problems of Designing Self-Compensating Radioactive Densimeters for Liquids

119-58-5-7/11

signal, which causes balancing, acts upon the compensation element until the amount of the balancing signal does not become smaller than the threshold value of the sensitivity of the measuring device.

In the device PZhR-3 an integral-ionization chamber is used, because it is of great efficiency, has small statistical fluctuation, and its life is unlimited. There are 3 figures and 5 references, 4 of which are Soviet.

AVAILABLE:

Library of Congress

1. Densimeters-Design

Card 2/2

S/194/61/000/012/008/097 D209/D303

AUTHOR:

Furman, K. S.

TITLE:

Problems of the theory and basis of design of auto-

compensated radioactive liquid densitometers

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 12, 1961, 27, abstract 12A191 (Radioakt. metody kontrolya i regul. proizv. protsessov, Riga, AN Latv.

SSR, 1959, 55-63)

TEXT: Described is a method based on determining the variation of intensity of primary beam of y-rays after its passage through the substance being measured. The radioactive source and the radiation receiver are so arranged that the primary y-ray beam, after passing through the substance under measurement, enters the radiation receiver. Analyzed are measuring circuits of the autocompensated liquid densitometer, in which there takes place an automatic compensation of the variations of the y-ray beam intensity resulting from the change of liquid density at all points of the instrument scale.

Card 1/2

Problems of the theory ...

S/194/61/000/012/008/097 D209/D303

The application of metallic (steel or aluminum) wedges is proposed as a compensating element for the f-rays which permits use of a linear scale for the instrument. Basic equations are given, connecting the characteristics of the radiation source with the instrument parameters, object of measurement and controlled process. 5 references. / Abstractor's note: Complete translation. /

Card 2/2

21(3), 9(6)

507/112-52-3-3/15

AUTHORS:

Iordan, C. G., Candidate of Technical Sciences, Meyman, T. G.,

Engineer, Furman, K. S., Engineer

TITLE:

Safety Technique in the Extensive Introduction of Radioactive

Apparatus (O tekhnike bezopasnosti pri shirokom vnedrenii

radioaktivnykh priborov)

PERIODICAL:

Priborostroyeniye, 1959, Mr 3, pp 21-22 (USSR)

ABSTRACT:

The directives of the XX Congress of the KPSS contained the following passage: Plans must be established in due time for a more extensive use of radioactive radiation in industries, agriculture, and medicine, in particular for the quality control of materials, for the inspection of production processes and their automatic control. In recent times such apparatus have been developed and introduced into industries. The radioactive level gage UR-4 is widely used in the control of the level of liquid chlorine in containers in various production processes. The radioactive level indicator RIU-1 measures the maximum and minimum height of dust in dust eliminators used in roasting pyrites in the "rimming zone". The radioactive device PZhR intended for the measurement of

Card 1/4

The radioactive device PZhR intended for the adduction of the chlorinated the density of fluids is used in the production of chlorinated

S07/119-59-3-8/15
Safety Technique in the Extensive Introduction of Radioactive Apparatus

oil, electrolytic soda, calcium chloride, etc. Special care must be taken in the use of radioactive apparatus which operates with gamma-radiation, and the same holds for apparatus using high-energy β-mdiation. 250 of the 500 large industrial plants in the USA use radioactive isotopes in one or another form. In 1957 the use of radioactive isotopes saved 406 million dollars, and this figure will climb to 5 billion dollars in about 5 years. At present all directions for use of radioactive apparatus include specifications as to their installation and operation. If these specifications are strictly complied with, an irradiation of personnel with prohibitively high doses (that is 0.05 roentgen per working day) is excluded. In practice, however, it appeared that the unclear wording of these specifications renders control and sanitary inspection more difficult. Hence it is necessary to issue specialized sanitary regulations for the application of radioactive apparatus with inherent gamma-sources for technological inspection purposes. According to the opinion of the authors these regulations should be bases upon the following considerations: In places where people are working who are not professionally engaged in work with ionizing

Card 2/4

SOV/119-59-3-8/15 Safety Technique in the Extensive Introduction of Radioactive Apparatus

> radiation, the radiation dose originating from technological inspection apparatus should not exceed one tenth of the maximum admissible radiation dose. If this requirement is to be satisfied in practice, it is necessary to keep the dose rate on the surface of such apparatus below 0.2 microroentgen/second. The majority of apparatus which is in use at present do not comply with this standard, and if such "sub-standard" equipment is employed, additional protective measures are required. Subsequently, formulas for safety clearances are drived and applied to special cases. The safety clearances can also be determined with a dosimeter. It appears to be expedient that the manufacturers of radioactive apparatus should send a team of specialists to customers who will look after the installation of the equipment in a suitable place. A report is given on the problems involved in transporting such equipment and on its regular inspection. Finally, the authors express their gratitude to L. N. Balanina, researcher at the Institut gigiyeny truda i profzabolevaniy (Institute of Labor Hygiene and Professional Diseases) for her valuable assistance.

Card 3/4

SOV/119-59-3-8/15 Safety Technique in the Extensive Introduction of Radioactive Apparatus There are 3 references, 2 of which are Soviet.

Card 4/4

, 21(4)

SOV/25-59-9-5/49

AUTHOR:

Furman, K.S., Senior Scientific Worker

TITLE:

Atomic Devices for Automation

PERIODICAL:

Nauka i zhizn', 1959, Nr 9, p 12 - 16 and p 1 of

centerfold (USSR)

ABSTRACT:

The author reports on the development and introduction of atomic devices. Presently, in the Soviet Union, several thousand such devices are being used. The application of radioactive isotopes in industry, chiefly in technological control devices, saved the national economy about 1.2 to 1.5 billion rubles in 1957. According to data of the Institut ekonomiki Akademii nauk SSSR (Institute of Economics of the AS USSR), in the next 5-6 rears the economic effectiveness of the application of radioactive means of automation and control of prediction processes will increase more than 8 times (from an annual saving of 500 million rubles in 1958 to 4 billion rubles). Any installation for automatic control using nuclear radiation consists

Card 1/4

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. Atomic Devices for Automation

SOV/25-59-9-5/49

of 4 elements: radiation source, radiation receiver, electronic block and secondary device. The first two elements are the transmitter of the device. It produces electrical signals depending upon the magnitude of the controlled parameter. In the electronic block, the signals of the transmitting element are produced in such a form that they put into operation the se-condary device, with the aid of which the automatic control or the regulation by the process is performed. The selection of isotopes is limited above all by their half-life. The isotopes cobalt-60 and cesium-137 (gamma-emitter), strontium-90 and thallium-204 (betaemitter) and polonium-210 (alpha-emitter) are mostly used. Radioactive devices are successfully used for checking the density of various liquids used in chemical processes related to the synthesis of new materials in the metallurgical, petroleum, food and other industries. An improved method for measuring gas consumption has been developed based on the following principle: the pipe system through which the gas is supplied, is radiated by a beam of beta-particles. The radiation

Card 2/4

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· Atomic Devices for Automation

SOV/25-59-9-5/49

flux is periodically interrupted by a rotating obturator. The beta-rays passing through the wall of the pipe system get into the gaseous medium and form a "little cloud" of ionized gas molecules. Each cloud, passing by the electrodes mounted in the pipe system, induces a charge in them. The moment of charge is fixed by the device and shows the average time needed for the transmission of the cloud from its place formation to the place of registration. This time is also a measure of the velocity of the gas through the pipe system and consequently of the gas consumption. A radioactive density measuring device (Figure 1), a radioactive ionizing manometer (Figure 2), a radioactive consumption measuring device RGT-2 (Figure 3) and a drawing of the automation of a technological process for concentrating various mineral raw materials

Card 3/4

Atomic Devices for Automation

SOV/25-59-9-5/49

(Figure 4) are shown. There are 3 photographs and 1 set of drawings.

ASSOCIATION:

Nauchno-issledovatel'skiy institut teploenergetiches-kogo priborostroyeniya (Scientific-Research Institute for the Building of Thermo-Power Devices)

Card 4/4

Vsesoyuznoye soveshchaniye po vmedreniyu radioaktivnykh izotopov 1 yadernykh
izlucheniy v narodnoye khoryaystvo SSSR, Riga, 1960.

Radioaktivnyye izotopy 1 yadernyye izlucheniya v narodnom khoryaystve SSSR;
trudy soveshchaniya v 4 tozakh. t. 1: Obshchlye voprcey primeneniya
izotopo., "thory s istochnikani radioaktivnykh izlucheniy, radioaktiomaya
khiniya, khinchonkaya 1 nefteperrenbatyrayuschapa pruzyeshemoatv (Radioactive Isotopes and Muclear Radiations in the National Economy of the USCR;
Transactions of the Symposium in k Volumes. v. 1: General Problems in the
Utilization of Isotopes; Instruments With Sources of Radioactive Radiation;
Radiation Chemistry; the Chemical and Petroleum Rafining Industry) Moscow,
Gostoptskhizdat, 1961. 3k0 p. 4,1k0 copies printed.

Sponsoring Agency: Gosudarstrenmy nauchno-tekhnicheskiy komitet Soveta Ministrov
SSSR, and Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'sovaniyu
atomnoy energii.

Ed. (Title page): N.A. Petrov, L.I. Petrenko and P.S. Savitskiy; Eds. of this Vol.:
L.I. Petrenho, P.S. Savitskiy, V.I. Sinitsin, I.e. M. Kolotyrkin, N.P. Syrkus
and R.F. Roms; Executive Eds.: Ie. S. Levina and B. F. Titskays; Tech. Ed.:
E.A. Mukhina.
Card 1/10

137

Radioactive Isotopes (Cont.)

BOV /5486

PURPOSE: The book is intended for technical personnel concerned with problems of application of radioactive isotopes and nuclear radiation in all branches of the Soviet economy.

COVERAGE: An All-Union Conference on problems in the introduction of radioactive isotopes and nuclear radiation into the national economy of the Soviet Union took place in Riga on 12-16 April 1960. The Conference was sponsored by: the Conudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR (State Scientific and Technical Committee of the Council of Ministers, USSR); Glavnoye upravleniye po ispol'zovaniyu atomnoy energii pri Sovete Ministrov SSSR (Main Administration for the Utilization of Atomic Energy of the Council of Ministers, USSR); Academy of Sciences, USSR; Gosplan USSR; Gosudarstvennyy komitet Soveta Ministrov SSSR po avtomatizatsii i mashinostroyeniyu (State Committee of the Council of Ministers, USSR, for Automation and Machine Building) and the Council of Ministers of the Latvian SSR. The transactions of this Conference are published in four volumes. Volume I contains articles on the following subjects: the general problems of the Conference topics; the state and prospects of development of radiation chemistry; and results and prospects of applying radioactive isotopes and nuclear radiation in the petroleum refining and chemical industries. Problems of designing and manufacturing instruments which contain sources of radioactive radiation and are used for checking and automation of technological processes are examined, along with problems of accident prevention in their use. No personalities are mentioned. References accompany some of the

Radioactive Isotopes (Cont.)	07/5486
CHEMICAL AND PETROLEUM DISTILLING INDUSTRY	
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Smirnov, A.N., and V.V. Utkin. Automatic Draining of Condensate With a Float Utilizing Radioactive Radiation	263
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furman, K.S., and V.V. Yakunin. Experience From the Utilization of a Radioactive Density Meter Used for Checking Successive Pumps of Petroleum Products	ing 274
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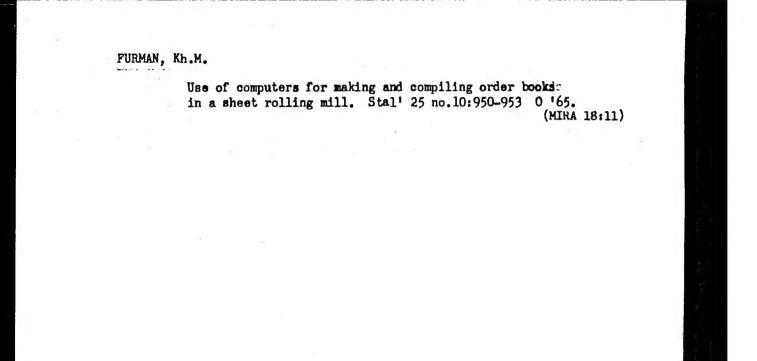
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(BLOOD PROTEIN DISORDERS) (LIVER CIRAHOSIS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000513910014-7"

ELFANCISCO.

YUGOSLAVIA/Nuclear Physics - Installation and Instruments. Methods of Measurement and Research.

Abs Jour

: Ref Zhur - Fizika, No 6, 1959, 12260

Author

: Furman, L.

Inst Title : Magmetic Mass Spectrometer.

Oric Pub

: Repts. "J. Stefan" Inst., 1957, 4, 109-115

Abstract

: Description of a magnetic mass spectrometer, intended for isotopic analysis of substances, introduced into the ion source in the form of the gas. The ions are formed in the source by electron bombardment. Electron current up to 300 microamperes. The ions are separated by their m/e ratio in a homogeneous sector (1200) magnetic field; the radius of curvature of the trajectory of the ions is 150 mm. The mass spectrum can be scanned by changing both the magnetic field and the ion energy. In the latter case rapid scanning is possible and up to 100 lines can be

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- 7 -